

FIG.1

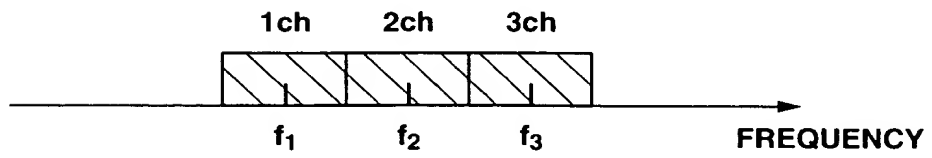


FIG.2

FIG.1

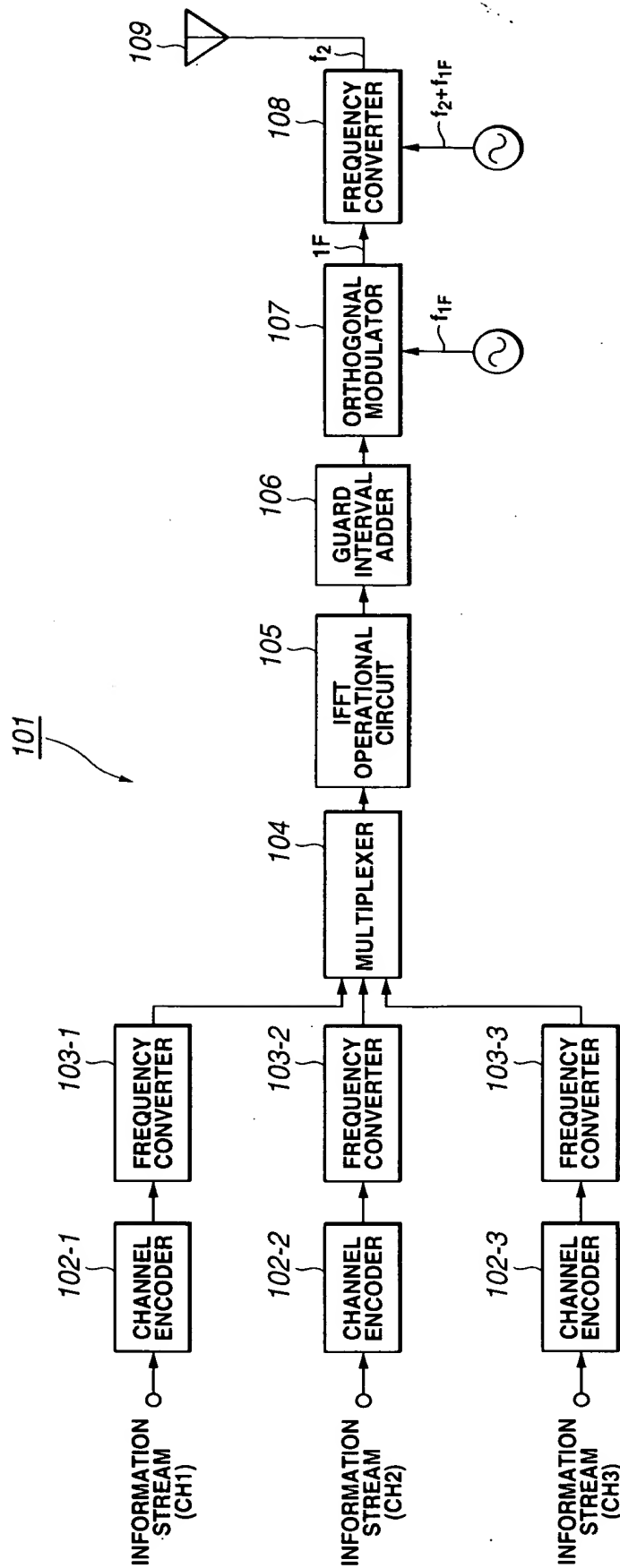


FIG.3

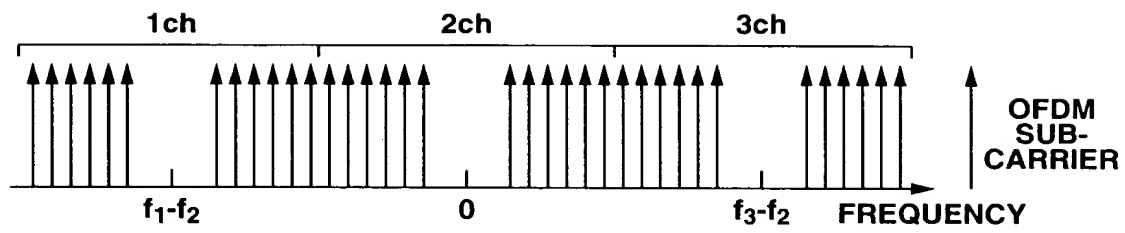


FIG.4

FIG. 5

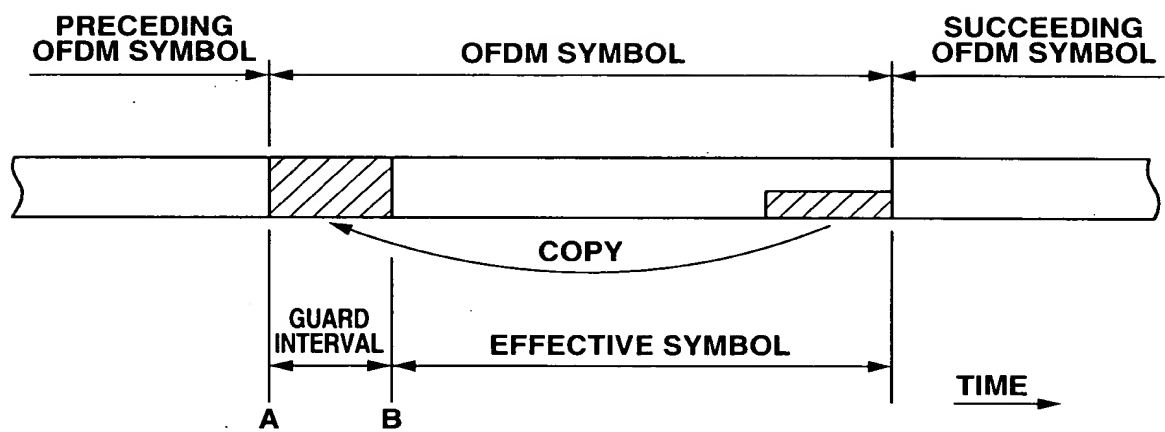


FIG.5

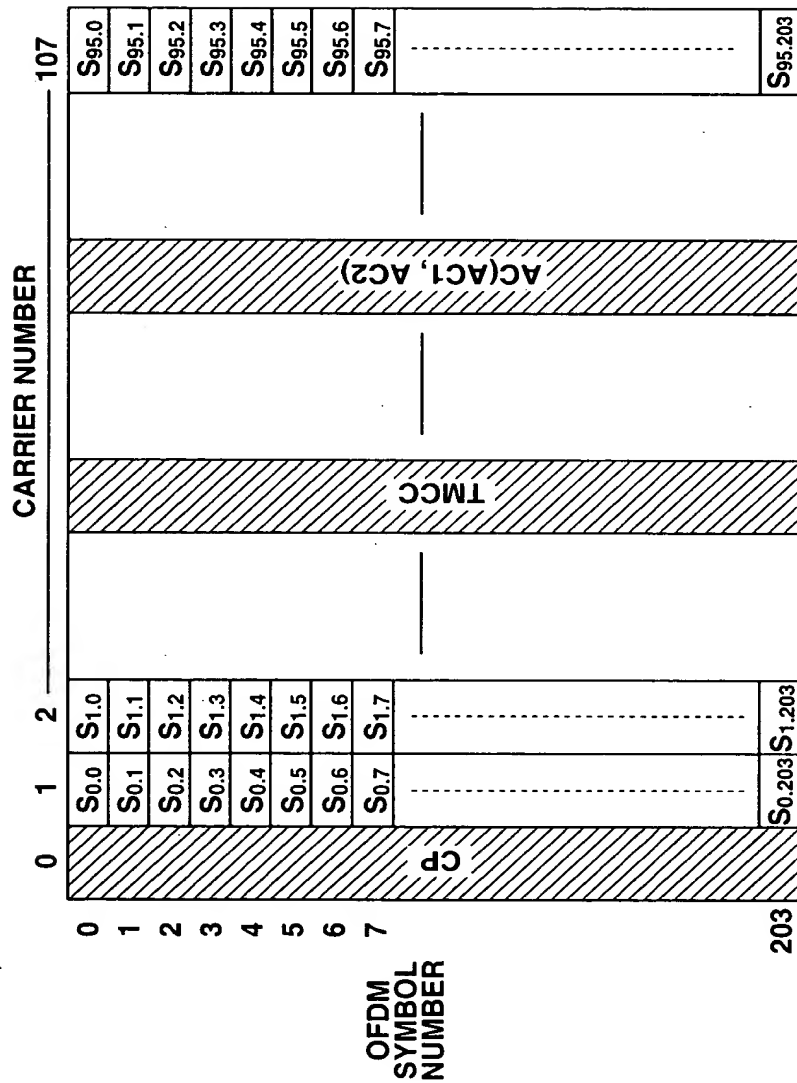


FIG. 6

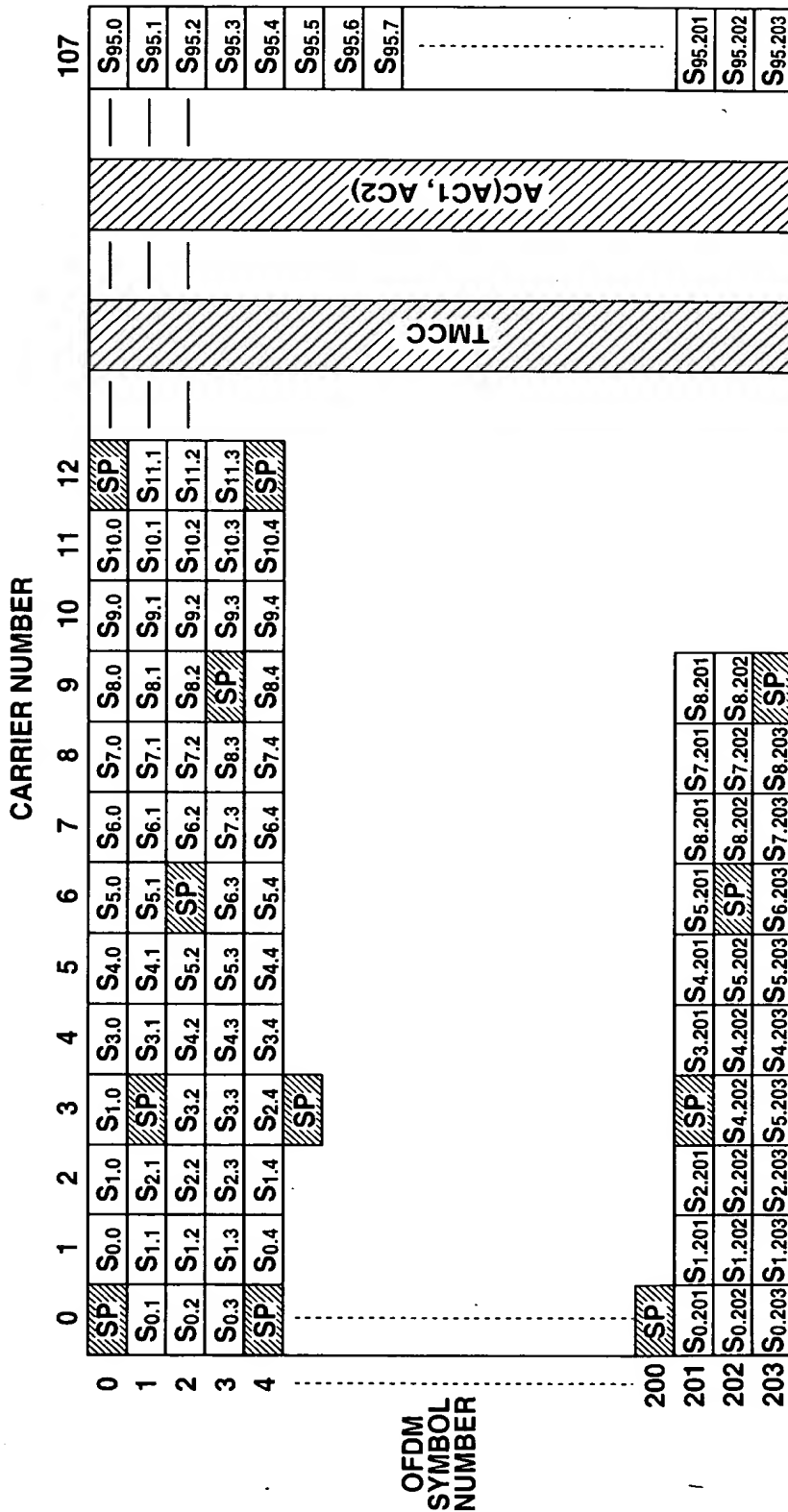


FIG.7

| SEGMENT NO. | |
|-------------|-----|
| CP | 0 |
| AC1_1 | 35 |
| AC1_2 | 79 |
| AC2_1 | 3 |
| AC2_2 | 72 |
| AC2_3 | 85 |
| AC2_4 | 89 |
| TMCC 1 | 49 |
| TMCC 2 | 61 |
| TMCC 3 | 96 |
| TMCC 4 | 99 |
| TMCC 5 | 104 |

FIG.8

**CARRIER ARRANGEMENT OF TMCC AND
AC OF SYNCHRONOUS MODULATOR**

| SEGMENT NO. | |
|-------------|----|
| AC1_1 | 35 |
| AC1_2 | 79 |
| TMCC 1 | 49 |

FIG.9

| | |
|------------------------|---|
| B_0 | REFERENCE FOR DIFFERENTIAL DEMODULATION |
| $B_0 \sim B_{16}$ | SYNCHRONIZING SIGNAL ($W_0=0011010111101110$, $W_1=1100101000010001$) |
| $B_{17} \sim B_{19}$ | IDENTIFICATION OF SEGMENT FORMAT (DIFFERENTIAL 111, SYNCHRONOUS 000) |
| $B_{20} \sim B_{121}$ | TMCC INFORMATION (102 BITS) |
| $B_{122} \sim B_{203}$ | PARITY BITS |

FIG.10

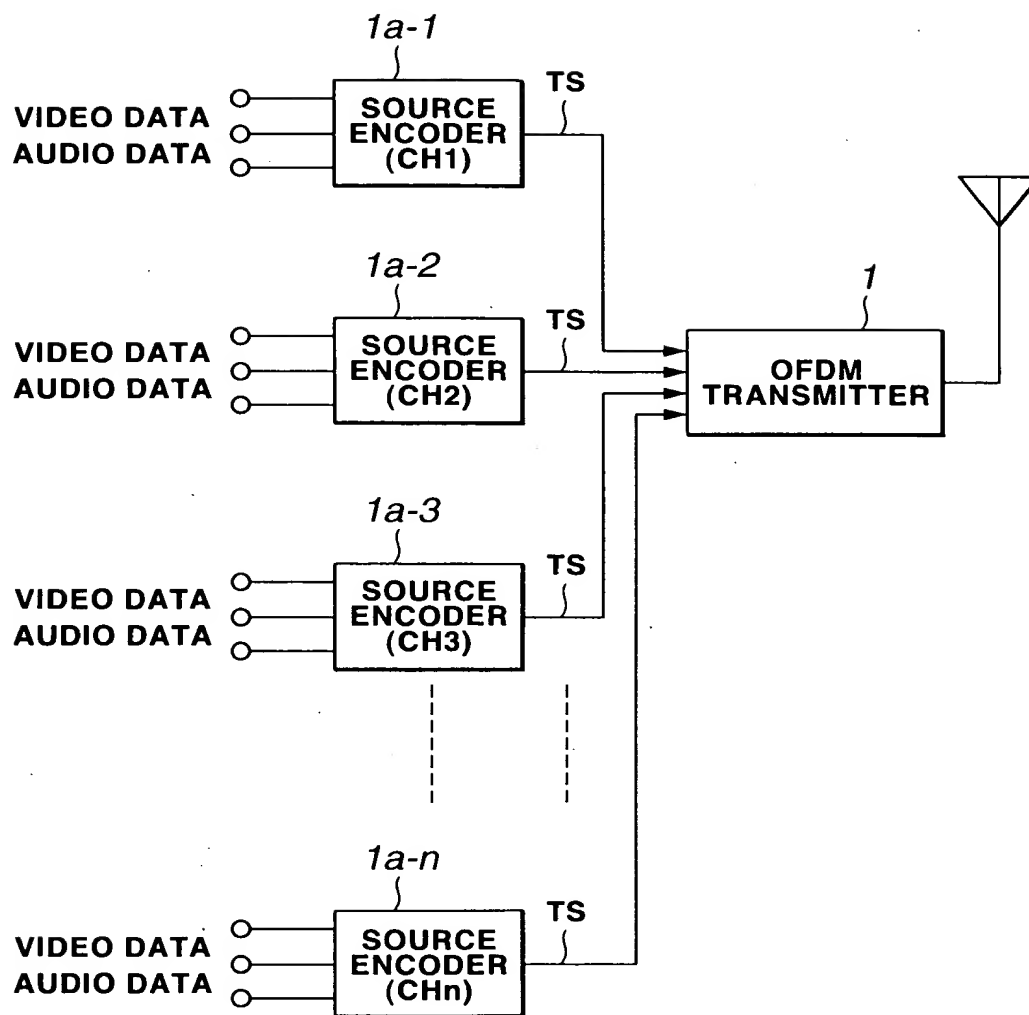


FIG.11

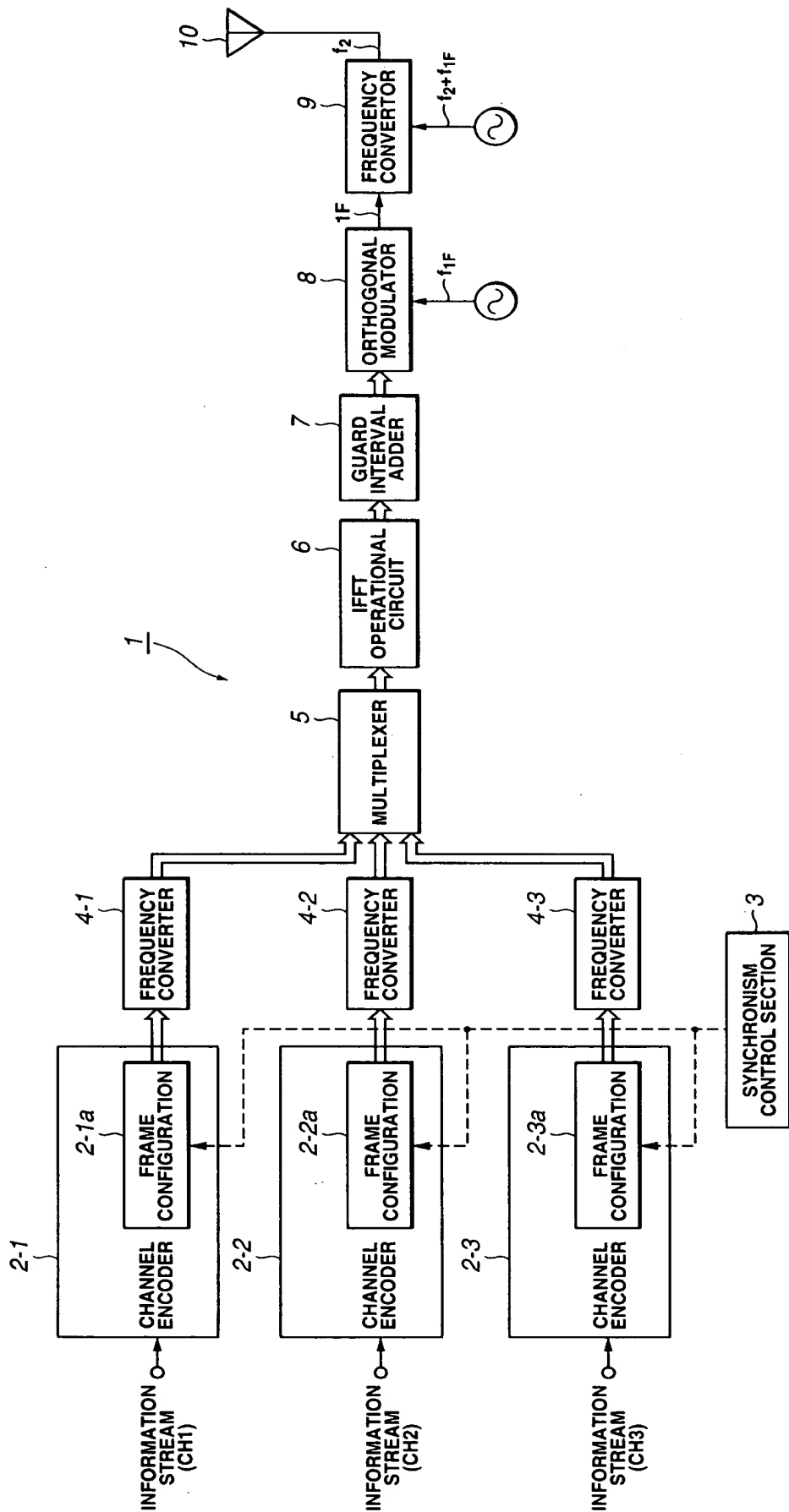


FIG.12

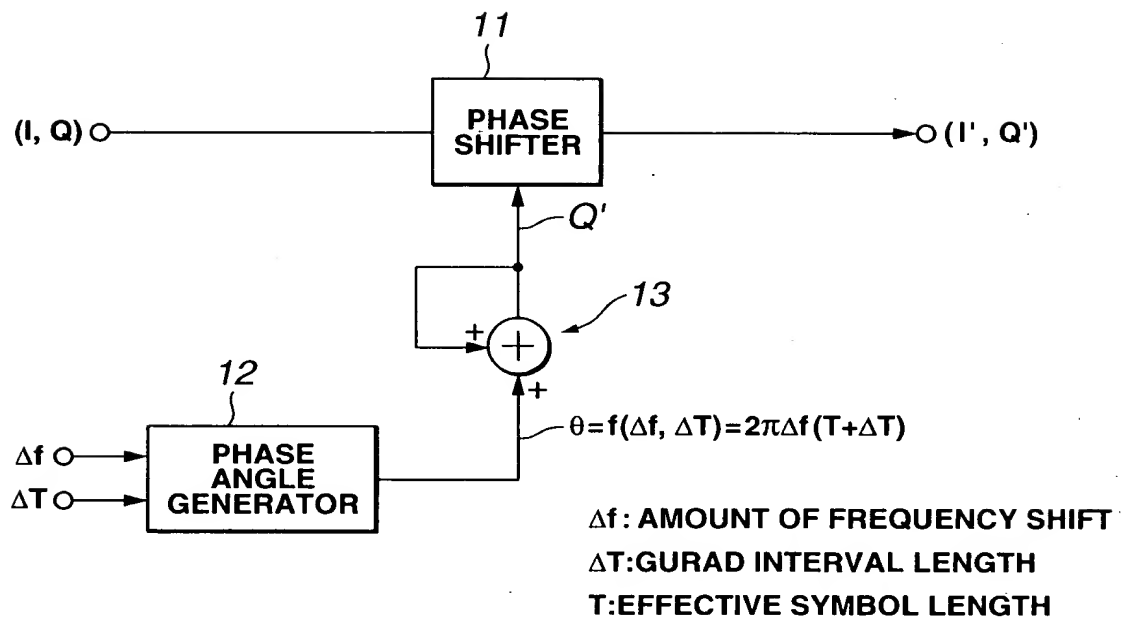


FIG.13

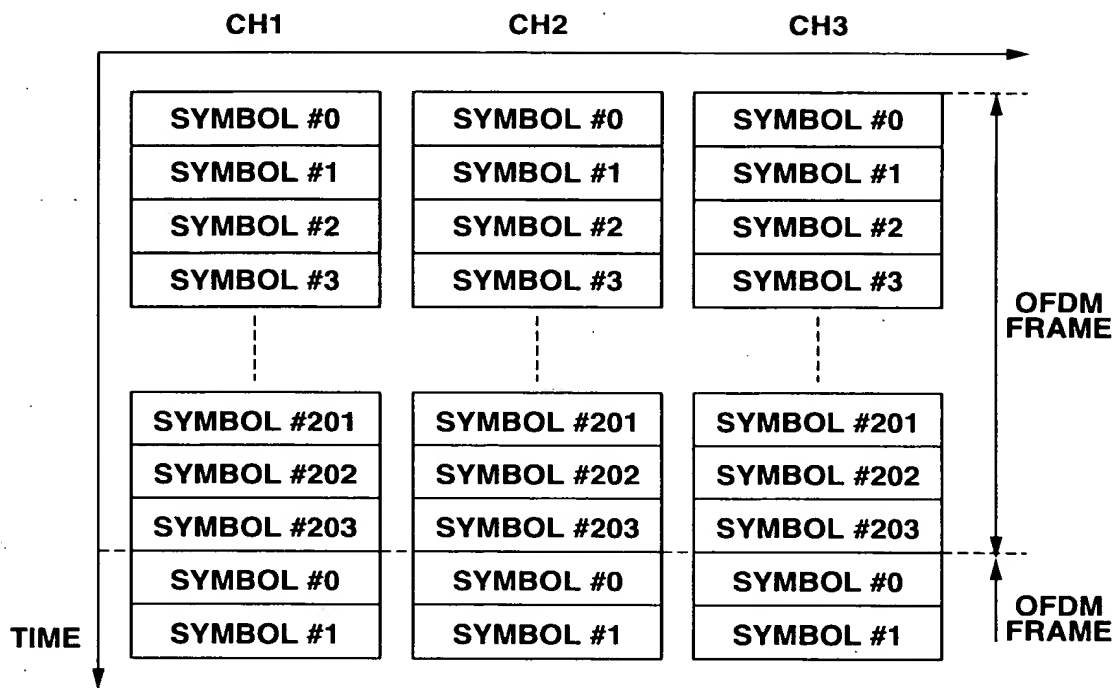


FIG.14

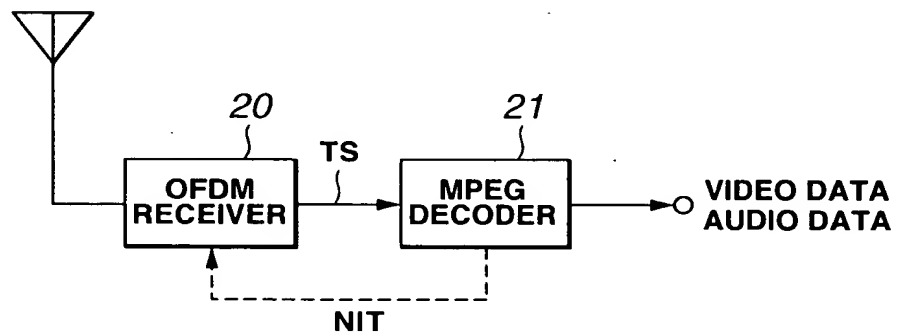


FIG.15

| BIT ASSIGNMENT | EXPLANATION |
|------------------------|--|
| $B_{110} \sim B_{113}$ | NUMBER OF CONNECTED SEGMENTS |
| $B_{114} \sim B_{117}$ | SEGMENT NO. OF SIGNAL TO BE TRANSMITTED |

FIG.17

| VALUE ($b_{113}, b_{112}, b_{111}, b_{110}$) | MEANING |
|--|--------------------------|
| 0000 | RESERVED |
| 0001 | RESERVED |
| 0010 | 2 SEGMENTS |
| 0011 | 3 SEGMENTS |
| 0100 | 4 SEGMENTS |
| . | . |
| 1100 | 12 SEGMENTS |
| 1101 | 13 SEGMENTS |
| 1110 | RESERVED |
| 1111 | INDEPENDENT TRANSMISSION |

FIG.18

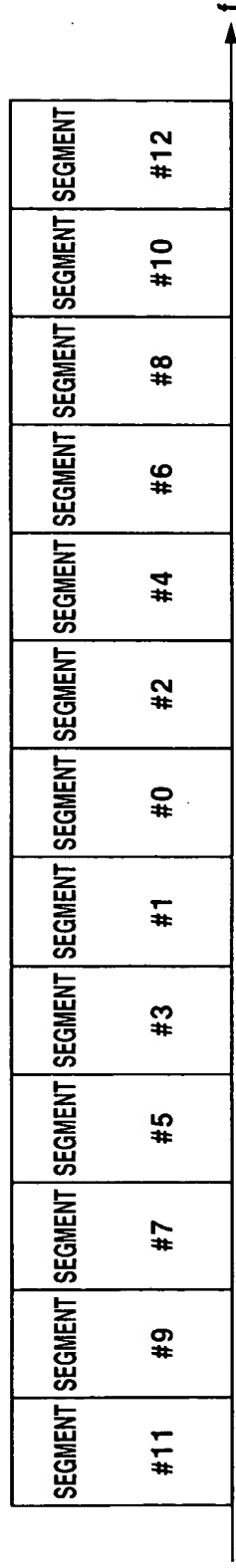


FIG.19

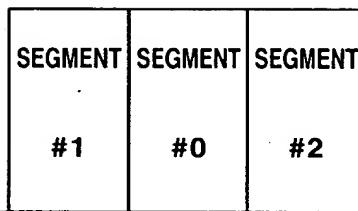


FIG.20

0934282 041204

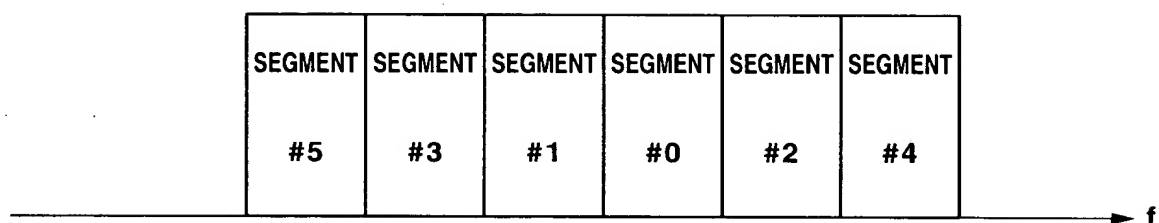


FIG.21

| VALUE (b ₁₁₇ , b ₁₁₆ , b ₁₁₅ , b ₁₁₄) | MEANING |
|--|-------------|
| 1111 | SEGMENT #0 |
| 1110 | SEGMENT #1 |
| 1101 | SEGMENT #2 |
| . | . |
| 0011 | SEGMENT #12 |
| 0010 | RESERVED |
| 0001 | RESERVED |
| 0000 | RESERVED |

FIG.22

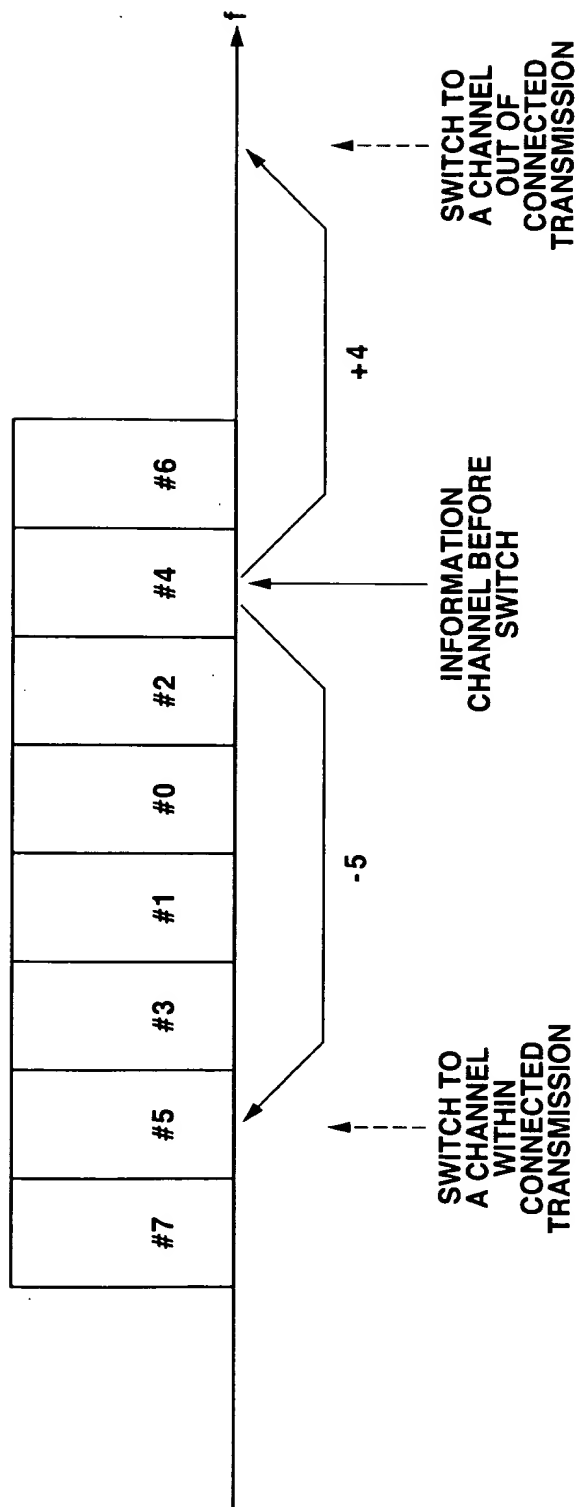


FIG.23

FIG. 24

| | |
|-----|---------------------------------|
| | |
| 000 | CONNECTED TRANSMISSION GROUP #0 |
| 001 | CONNECTED TRANSMISSION GROUP #1 |
| 010 | CONNECTED TRANSMISSION GROUP #2 |
| 011 | CONNECTED TRANSMISSION GROUP #3 |
| 100 | CONNECTED TRANSMISSION GROUP #4 |
| 101 | CONNECTED TRANSMISSION GROUP #5 |
| 110 | CONNECTED TRANSMISSION GROUP #6 |
| 111 | INDEPENDENT TRANSMISSION |

FIG.24

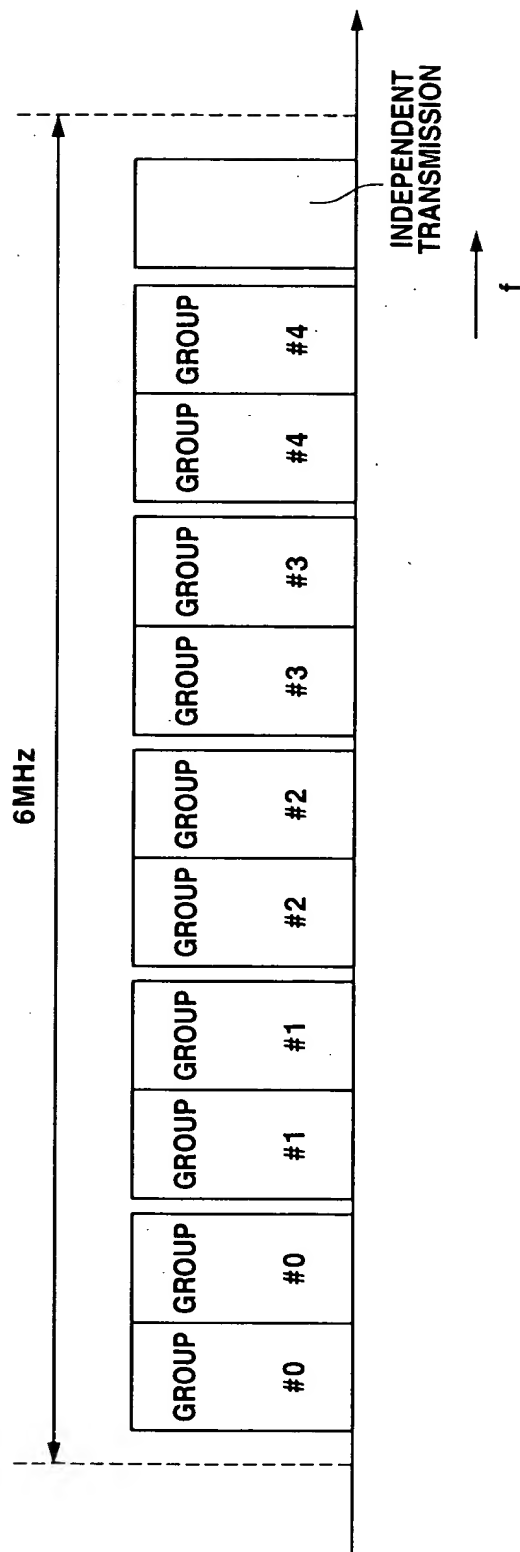


FIG.25